

CLAIMS

1. Device for taking samples, comprising a body (1) inside which there is a rotating plug (4) through which two drillings (24, 25) have been made, separated by an angle equal to an angle separating two orifices (22, 23) penetrating the body (1) and leading into a sample intake pipe and discharge pipe, the body also being perforated by a sample-taking orifice (18) provided with a calibrated valve (19) located between the bottom of a cylindrical chamber (12) contained in the body and partially delimited by the rotating plug (4), the device also comprising a piston (11) free to move in the rotating plug (4) towards and away from the bottom and delimiting the chamber on the side opposite the bottom.

2. Sample-taking device according to claim 1, characterized in that the bottom of the chamber (12) is delimited by a base (10) of the rotating plug (4), the sampling orifice (18) is located on a circumference of the body common to the inlet and outlet orifices, and is separated from one of the inlet and outlet orifices (22, 23) by the angle between the drillings (24, 25) in the rotating plug.

3. Sample-taking device according to either of claims 1 or 2, characterized in that an opening is formed in the body (1) opposite the bottom of the chamber, the rotating plug (4) projects from the body at the said opening, and in that the piston is coupled to a manoeuvring device (15) fitted with a portion engaged by threading on the rotating plug.

4. Sample-taking device according to claim 3, characterized in that the said portion of the manoeuvring device is a skirt (32) covering the rotating plug (4) and in that the graduations (33) are  
5 marked on the rotating plug.

5. Sample-taking device according to any one of claims 1 to 4, characterised in that the rotating plug (4) is separated from the body (1) by a sealing ring  
10 (3).

6. Sample-taking device according to claim 5, characterised in that the sealing ring (3) and the body (1) bear on conical surfaces (2), in that the rotating  
15 plug (4) is connected to the body (1) through a system for adjusting the position of the rotating plug (4) along a rotation spindle of the rotating plug (4), and in that the sealing ring is in contact with the rotating plug, in the direction of the opening of the  
20 conical surfaces.

7. Sample-taking device according to claim 6, characterised in that the layout of the position setting of the rotating plug (4) is composed of a  
25 flange (5) formed on the rotating plug (4) and provided with adjustment screws (7) bearing on the body (1).

8. Sample-taking device according to claim 7, characterised in that the flange (5) is provided with a  
30 stop pin (34) preventing rotation of the rotating plug (4) and the body (1) is provided with holes (37) formed on a circular trajectory of the pin (34) when the

rotating plug (4) is rotated, and that define the preferred stop positions for the rotating plug.

9. Sample-taking device according to claim 3,  
5 characterised in that it comprises a manoeuvring device  
(9) for the rotating plug opposite to the piston  
manoeuvring device (15).